

## SECTION 1 (Maximum Marks: 12)

- This section contains **FOUR (04)** questions.
- Each question has **FOUR** options (A), (B), (C) and (D). **ONLY ONE** of these four options is the correct answer.
- For each question, choose the option corresponding to the correct answer.
- Answer to each question will be evaluated according to the following marking scheme:  
*Full Marks* : +3 If **ONLY** the correct option is chosen;  
*Zero Marks* : 0 If none of the options is chosen (i.e. the question is unanswered);  
*Negative Marks* : -1 In all other cases.

- Q.1 Let  $f : [1, \infty) \rightarrow \mathbb{R}$  be a differentiable function such that  $f(1) = \frac{1}{3}$  and
- $$3 \int_1^x f(t) dt = x f(x) - \frac{x^2}{3}, \quad x \in [1, \infty).$$
- Let  $e$  denote the base of the natural logarithm. Then the value of  $f(e)$  is

(A)  $\frac{e^2 + 4}{3}$       (B)  $\frac{\log_2 4 + e}{3}$       (C)  $\frac{4e^2}{3}$       (D)  $\frac{e^2 - 4}{3}$

Answer: C

- Q.2 Consider an experiment of tossing a coin repeatedly until the outcomes of two consecutive tosses are same. If the probability of a random toss resulting in head is  $\frac{1}{3}$ , then the probability that the experiment stops with head is

(A)  $\frac{1}{3}$       (B)  $\frac{5}{21}$       (C)  $\frac{4}{21}$       (D)  $\frac{2}{7}$

Answer: B

- Q.3 For any  $y \in \mathbb{R}$ , let  $\cot^{-1}(y) \in (0, \pi)$  and  $\tan^{-1}(y) \in \left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$ . Then the sum of all the solutions of the equation  $\tan^{-1}\left(\frac{6y}{9-y^2}\right) + \cot^{-1}\left(\frac{9-y^2}{6y}\right) = \frac{2\pi}{3}$  for  $0 < |y| < 3$ , is equal to

(A)  $2\sqrt{3} - 3$       (B)  $3 - 2\sqrt{3}$       (C)  $4\sqrt{3} - 6$       (D)  $6 - 4\sqrt{3}$

Answer: C

# Answer Keys Of Jeemains 2014 Paper2 Code K

**Prepjee**



**Answer Keys Of Jeemains 2014 Paper2 Code K:**

*JEE Main 13 Years Question Paper* Prepjee, 2014-08-01 THIS BOOK HAS BEEN DEVELOPED AND DESIGNED TO OVERCOME WITH PRESSING NEED OF JEE MAIN ASPIRANTS THE BOOK CONTAINS PAPERS OF AIEEE JEE MAIN OF PAST 13 YEARS WITH ANSWER KEY AND DETAILED SOLUTION FOR THREE YEARS PAPERS THIS WILL GUIDE THE COURSE OF PREPARATION OF AN ASPIRANT IN A DEFINITE AND REQUIRED DIRECTION LIKE RADAR MOREOVER SOLUTION OF GIVEN YEARS i.e. 2012 2014 IS IN APPROPRIATE MANNER SO THAT AVERAGE STUDENT CAN UNDERSTAND AND SOLVE PROBLEMS EASILY THIS BOOK ALSO HELPS STUDENTS IN CONCEPT BUILDING

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